WHAT IS CLAIMED IS:

1. A transmitter for a remote control system comprising:

a battery that supplies an operating voltage;

an key operation means that receives an instruction from an operator;

a memory that stores a rolling code corresponding to a number of times the key operation means is operated;

a writing means that increments the rolling code stored in the memory every time the key operation means is operated and writes the incremented rolling code into the memory;

a transmission section that transmits a signal including the rolling code stored in the memory to a receiver of the remote control system;

a dummy load circuit that consumes an amount of power corresponding to an amount of power required for a process of writing the rolling code into the memory by the writing means; and

a writing propriety determination means that drives the dummy load circuit and determines propriety of writing of the rolling code by the writing means based on a degree of decrease in battery voltage caused by driving the dummy load circuit prior to the writing of the rolling code by the writing means.

2. The transmitter for a remote control system according to claim 1, wherein:

the dummy load circuit includes a constant current

circuit that generates constant current and a resistor through which the constant current generated by the constant current circuit is passed; and

the dummy load circuit consumes the amount of power corresponding to the amount of power required for the process of writing the rolling code into the memory when the constant current is passed through the resistor.

3. The transmitter for a remote control system according to claim 2, wherein the writing propriety determination means compares the voltage reduced by the resistor with a predetermined threshold voltage, and terminates the writing process performed by the writing means if the reduced voltage is lower than the predetermined threshold voltage.